

AMENDMENTS TO THE CLAIMS

Listing of the claims:

1-6. (canceled)

7. (currently amended) A composition containing a labile disulfide bond for inserting into an organism, comprising: a disulfide bond, wherein located between at least two reactable reactive groups, at least one on each side of the disulfide bond, that have reacted to form [[a]] covalent bonds with one or more different molecules on each side of the disulfide bond, such that wherein the disulfide bond remains is labile under physiologic conditions and is cleaved more rapidly than oxidized glutathione; ~~wherein~~ and cleavage of the disulfide bond results in the formation of two molecules.

8. (currently amended) The ~~compound~~ composition of claim 7 wherein the ~~compound~~ composition is amphipathic.

9. (currently amended) The ~~compound~~ composition of claim 7 wherein the ~~compound~~ composition comprises a polymer.

10. (currently amended) The ~~method~~ composition of claim 7 wherein the ~~polymer~~ composition is selected from the group consisting of a polycation, a polyanion, a neutral polymer, and an amphipathic polymer.

11. (currently amended) The ~~method~~ composition of claim 7 wherein the ~~compound~~ composition contains a ligand.

12-18. (canceled)

19. (previously presented) A composition for inserting into an organism, comprising: a disulfide bond that is labile under physiologic conditions and constructed from thiols in which one of the constituent thiols has a lower pKa than glutathione resulting in the formation of two molecules.

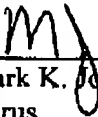
20. (previously presented) The composition of claim 19 wherein the composition is amphipathic.

21. (previously presented) The composition of claim 19 wherein the composition comprises a polymer.

22. (previously presented) The composition of claim 21 wherein the polymer is selected from the group consisting of a polycation, a polyanion, a neutral polymer, and an amphipathic polymer.
23. (previously presented) The composition of claim 19 wherein the composition contains a ligand.
24. (currently amended) A composition for inserting into an organism, comprising: a disulfide bond that is activated by intramolecular attack from a free thiol such that it is cleaved more rapidly than oxidized glutathione wherein at least two reactable groups, at least one on each side of the disulfide bond, have reacted to form a covalent bonds with ~~one or more molecules, at least one molecule on each side of the disulfide bond, such that cleavage of the~~ disulfide bond ~~is cleaved more rapidly than oxidized glutathione and is activated by intramolecular attack from a free thiol resulting results~~ in the formation of two molecules.
25. (previously presented) The composition of claim 24 wherein the composition is amphipathic.
26. (previously presented) The composition of claim 24 wherein the composition comprises a polymer.
27. (previously presented) The composition of claim 26 wherein the polymer is selected from the group consisting of a polycation, a polyanion, a neutral polymer, and an amphipathic polymer.
28. (previously presented) The composition of claim 24 wherein the composition contains a ligand.

If there are any questions or concerns, please contact the undersigned.

Respectfully submitted,

  
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